Claims

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1. A method for operating a filer including the steps of;

receiving at a first location a request from a user for an object;

processing said request at a second location, wherein said step of processing includes at least one of the following: (1) searching for one or more recognizable patterns of data within said object, (2) compressing said object, and (3) encrypting said object.

responding to said request, wherein said step of responding includes delivery of a response to said user.

- 2. The method of claim 1, wherein said request is in an electronic form.
- 3. The method of claim 1, wherein said object is a file.
- 4. The method of claim 3, wherein said step of processing said request further includes the steps of;

creating an access path from said filer to a processing cluster;

processing said file in said processing cluster; and

generating a scan report wherein, said scan report is responsive to

said processing of said file in said processing cluster.

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1	5.	The method of claim 4, wherein said step of creating an access path
•	J.	The medical of claim 1, wherem said step of creating an access pain
2	includes sending th	ne ID and path of said file from said filer to said processing cluster.
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4	6.	The method of claim 5, wherein said step of sending is accomplished
5	using non-uniform	memory access.
6		
7	7.	The method of claim \(\frac{4}{3} \), wherein said step of sending is accomplished
8	using a communica	ntions network.
9 1 0	8.	The method of claim 5, wherein said step of sending is accomplished
10 m m m m 12 m	using a direct conn	ection.
	9.	The method of claim 4, wherein said step of processing of said file is
13	performed by said	processing fluster in a round robin fashion for subsequent files re-
1 <u>5</u> 1 <u>5</u> 16	ceived.	
17	10.	The method of claim 4, wherein said step of processing of said file is
18	accomplished in pa	arts by more than one device in said processing cluster.
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20	11.	The method of claim 4, wherein all files stored on said filer are
0.1	scanned in a logica	Lantinuous mannor

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1		12.	The method of claim 4, wherein said scan report contains a set of
2	status data re	elating	to said processing of said file.
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4		13.	The method of claim 12, wherein said status data includes at least
5	one data eler	ment id	entifying the presence or non-presence of a virus in said file.
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7		14.	The method of claim 13, wherein said report is transferred to said
8 9	filer.		
[] 6		15.	The method of claim 14, wherein said report is stored in a first data-
	base.		
		16.	The method of claim 15, wherein the necessity for subsequent scan-
1 1 4	ning of said	file is	a function of determining whether said database contains said report
3 4 4 4 5 5	relating to sa	aid file	and whether said file has changed since last accessed.
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17		17.	The method of claim 16, wherein the necessity for subsequent scan-
8	ning of said	file is	a function of determining whether additional virus identification data
9	files have be	en add	ed to said processing cluster.
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21		18.	The method of claim 1, wherein said delivery of a response is said
22	file.		

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2	19. The method of claim 1, wherein said delivery of a response includes
3	notification to said user that said file is unavailable.
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5	20. The method of claim 1, wherein said step of responding to said re-
6	quest includes sending said user a copy of said scan report.
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8	21. An apparatus for operating a filer including,
9	means for receiving at a first location a request from a user for an
10	object;
11) 11)	means for processing said request at a second location, wherein said
	means for processing includes at least one of the following: (1) means for search-
	ing for one or more recognizable patterns of data within said object, (2) means for
[] 1 4	compressing said object, and (3) means for encrypting said object.
131 L4 L 60	means for responding to said request, wherein said means for re-
16	sponding includes delivery of a response to said user.
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18	22. The apparatus of claim 21, wherein said object is a file.
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20	The apparatus of claim 22, wherein said means for processing said
21	request further includes



1	means for creating an access path from said filer to a processing
2	cluster;
3	means for processing said file in said processing cluster; and
4	means for generating a scan/report wherein, said scan report is re-
5	sponsive to said processing of said file in said processing cluster.
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7	24. The apparatus of claim 23, wherein said means for creating an access
8	path includes means for sending the ID and path of said file from said filer to said proc-
9	essing cluster.
9	25. The apparatus of claim 24, wherein said means for sending is ac-
ini.	complished using non-uniform memory access.
13 14 14 14	26. The apparatus of claim 24, wherein said means for sending is ac-
15) ()	complished using a communications network.
16	
17	27. The apparatus of claim 24, wherein said means for sending is ac-
18	complished using a direct connection.
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20	28. The apparatus of claim 23, wherein said means for processing of said
21	file is performed by said processing cluster in a round robin fashion for subsequent files
22	received.

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2	29.	The apparatus of claim 23, wherein said means for processing of said
3	file is performed	on atomic units of said file by more than one device in said processing
4	cluster.	
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6	30.	The apparatus of claim 23, wherein all files stored on said filer are
7	scanned in a logic	cal continuous manner.
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9	31.	The apparatus of claim 23, wherein said scan report contains a set of
10	status data relatin	g to said processing of said file.
`\] 1 2] -1	32.	The apparatus of claim 31, wherein said status data includes at least
	one data element	identifying the presence or non-presence of a virus in said file.
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15) 15)	33.	The apparatus of claim 31, wherein said report is transferred to said
16	filer.	
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18	/34.	The apparatus of claim 33, wherein said report is stored in a first
19	database.	

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1	35. The apparatus of claim 34, wherein the necessity for subsequent
2	scanning of said file is a function of determining whether said database contains said re-
3	port relating to said file and whether said file has changed since last accessed.

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The apparatus of claim 35, wherein the necessity for subsequent 36. scanning of said file is a function of determining whether additional virus identification data files have been added to said processing cluster.

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37. The apparatus of claim 21/wherein said delivery of a response is delivery of said file.

The apparatus of claim 21, wherein said delivery of a response in-38. cludes delivery of notification to said user that said file is unavailable.

said request includes sending said user some portion of said scan report.

The apparatus of claim 21, wherein said means for responding to

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